	454	
Ultrashort-wave Antennas		5 29
3. Approximation method of determining the field in sector		531
4. Directivity factor and gain		535
5. Choosing the dimensions of a corner-reflector antenna		536
6. Selecting the dipole type		537
7. Experimental data Ch. XXI. Substituting Grids or a System of Parallel Sheets Metal Surfaces	for Continuo	
1. Statement of the problem		544 545
2. A single-wire metal grid		561
3. A sheet grid	us surfaces	562
4. Substituting grids or a system of sheets for contingon		
Card 22/26		

		Antennas	45	54		
. 0	Ch.	XII. Slotted Waveguide Antennas				
	1.	The slot in the waveguide		: :	563	
	2.	Types of slotted waveguide antennas			564	
	3•	Resonant antennas			566	
•	4.	Nonresonant antennas			569	:
	5•	Antenna with matched oblique and offset slots			571	
	6.	Directional properties. Directivity factor and gain		•	573	
	7.	Conductance and resistance of the slots cut in the wavegu	uide		578	
	8.	Transformation of reflection factor, the relation between radiated and transmitted power and the phase of the field		e slot	591	-
Ca	ard 2	3/26		.5 0100	734	
					· · · · · · · · · · · · · · · · · · ·	

Iltrashort-wave Antennas	454	
9. Some problems in the design of multiple	e-slot antennas	593
10. Some experimental data on antennas with		602
Ch. XXIII. Dielectric Antennas		
1. Description and operating principle		606
2. Selecting the wave type. Selecting the	e diameter and length of	607
3. Directional properties		609
4. Directivity factor, efficiency and gain	n	617
5. Characteristics of dielectric antennas		618
6. Structural design of the dielectric ro	d. Rod excitation	625
7. Complex dielectric antennas		627
8. Hollow-tube dielectric antennas		632
Card 24/26		

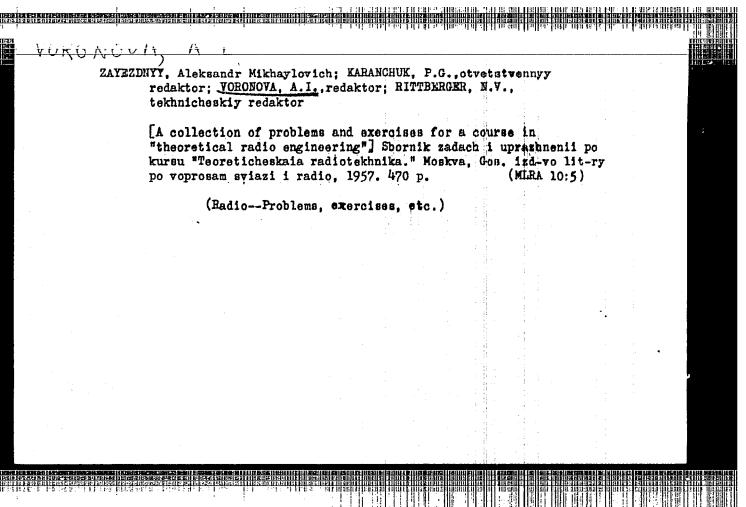
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Ultras	hort-wave Antennas		454	
Ch. XX	IV. Director Antennas	* <u>}</u>		63 ¹ +
1.	Diagram and operating principle			636
	The design of a director antenna			641
3•	Approximation method in analyzing a director antenna			649
4.	Calculated and experimental data on director antenna			662
5.	Selecting the dimensions of parasitic elements			
6.	Passband of the director antenna			663
7.	Structural design of the director antenna	1	:	665
				667
8.	The slotted director antenna			
Card	25/26			· · ·

Ultrashort-ware Antennas				454	
Ch. XXV. Spiral Antennas					
1. Diagram and operating	principle				668
2. Design formulas			1 1 2		672
3. Some experimental data	L				675
Appendix					686
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BEN'KOVA, Natal'ya Pavlovna; POPOV, A.N., otvetstvennyy red.; VORONOVA, A.I., red.; SHEFER, G.I., tekhn.red.

[The International Geophysical Year and studies of the upper layers of the atmosphere] Mezhdunarodnyi geofizicheskii god i issledovaniia verkhnikh sloev atmosfery. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1958. 47 p.

(Atmosphere, Upper)



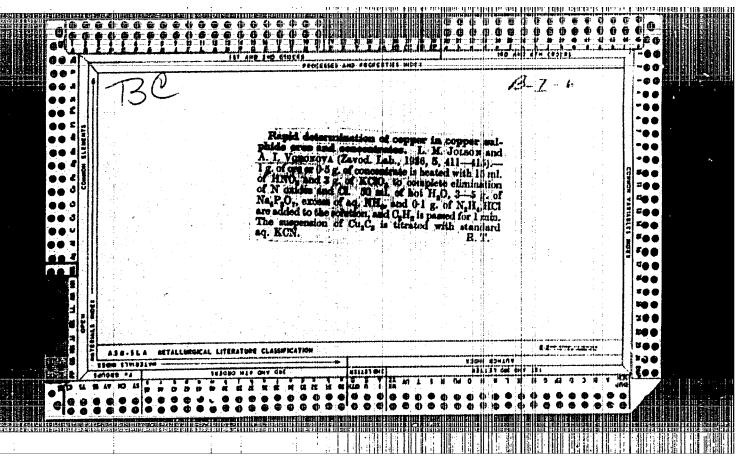
KUZYK, Danil Fedorovich; KULESHOV V.N., redaktor; VOH)HOVA, A.I., redaktor; SOKOLOVA, R.Ya., tekhnicheskiy redaktor;

[Locating damages to underground radio communication lines]
Otyskanie povrezhdenii na podsemnykh liniiakh radiofikatsii.
Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1955. 42 p.
(Electric lines--Underground) (MLRA 8:10)

SHITSEREY, Georgiy Aleksandrovich; BABERKO, A.A., redaktor; VOHDEOVA,
A.I., redaktor; VEINTRAUB, A.B., tekhnicheskiy redaktor; VOHDEOVA,
[Measurements in repairing and adjusting radio receiving sets]
Isserentia pri remonte i nalashivanii radiopriesmikov. Moskva,
Gos.izd-vo lit-ry po voprosan sviazi i radio, 1955.122 p,
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MIKHAYLOV, Yevgeniy Vasil'yevich; KANTCR, L.Ya., otvetstvennyy redaktor; VCRCHOVA, A.I., redaktor; SOKOLOVA, R.Ya., tekhnicheskiy redaktor

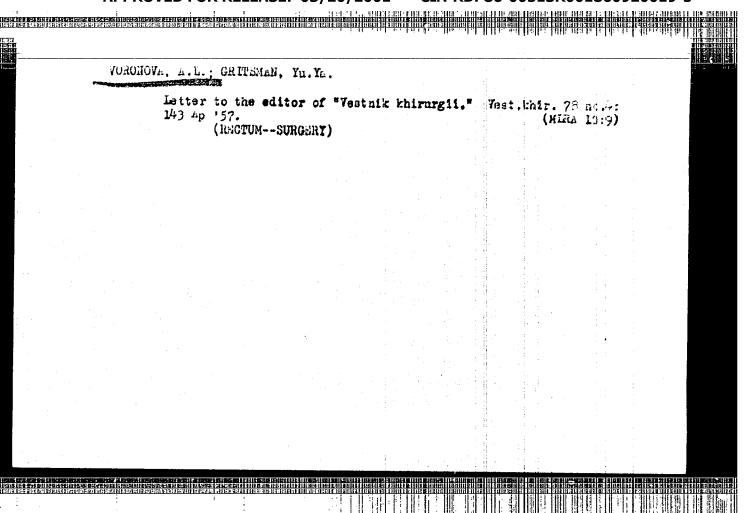
[Type TU, MGSRTU, KTU, and UK radio rebroadcasting apparatus]
Radiotransliatsionnye ustanovki tipov TU, MGSRTU, KUT 1 UK. Moskva,
Gos. izd-vo lit-ry po voprosam sviazi i radio, 1956. 69 p.(MLRA 9:7)
(Radio--Apparatus and supplies)



DOLUKHANOV, Mark Pavlovich; GRUDINSKAYA, G.P., retsenzent; VASIL'YEV, Ye.N., retsenzent; BARTEHEV, G.M., retsenzent; VCRONOVA, A.I., red.; KARABILOVA, S.F., tekhn.red.

[Propagation of radio waves] Rasprostranenie radiovoln. Isd.2. Moskva, Gos.izd-vo lit-ry po voprosam sviszi i radio. 1960. 390 p. (MIRA 14:2)

(Radio waves)



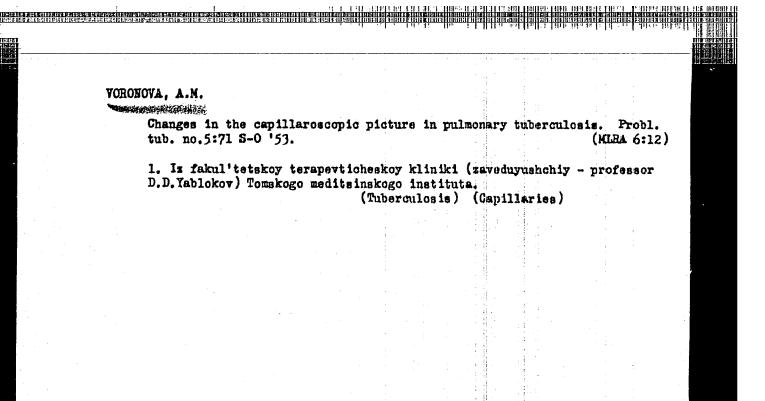
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YABLURUV, D.D., professor; VORONOVA A.M., assistent; VITHOVSKATA, G.L.,
assistent; PODOLYANIK, N.A., assistent.

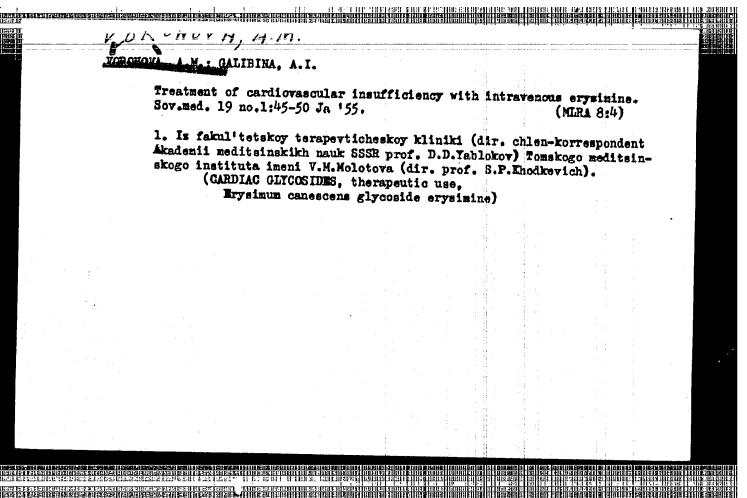
Climical aspects of silicosis in workers of metal mines. Bor ba s sil. 1:232-239 '53. (HIHA 7:10)

1. Tomskiy meditainskiy institut im. V.M.Molotova (for Voronova, Vitkovskaya and Podolyanib) 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (fc. Yablokov). (LUNGS -- DUST DISEASES) .

APPROVED FOR RELEASE: 03/20/2001



VORONOVA, A. H. USSR/Medicine - New Drugs, Cardiotonics "Clinical Observations on the Effects of a New Cardiac Drug, Syrenid, on Patients With Circulatory Deficiency," D. D. Yablokov, A. M. Voronova, Faculty Ther Clin, Tomsk Med Inst im V. M. Molocov Klin Med, Vol 31, No 5, pp 26-33 Syrenid is a highly active cardiotonic with properties similar to trophanthin. It acts rapidly after an intravenous administration of 0.51 cd per day. Does not produce toxic symptoms, Its cumulative effect is very mild and only rarely observed. The dosage and the course of treatment with syrenid must be adjusted to suit the cardidvascular system of each patient. Syrenic is derived from Chelidonium hajus plants which grow wild in Siberia and also from Syrenia siliculoss.



VORONOVA, A.M., kandidat mediteinskikh nauk

Treatment of circulatory insufficiency with dilaniside. Terap. arkh.27 no.3:33-39 '55. (MLRA 8:9)

1. Iz fakul tetskoy terapevticheskoy kliniki (dir.-chlenkorrespondent AMN SSSR Prof. D.D. Yablokov) Tomskogo meditsinskogo instituta imeni V.M. Molotova) (DIGITALIS.

lenata glycoside dilaniside, ther.use) (HEART. DISEASES, therapy.
Digitalis lanata glycoside dilaniside)

BRONSHTEYN, Z.I.; MEYTIN, Yu.V.; SMEL'NITSKIY, F.S.; VORONOVA, A.M.; MURAV'YEV, V.A.

Glass textolite "ST" with a base of sized glass wool. Plast. massy no.10:59-62 '65. (MIRA 18:10)

L 2026-66 EMP(e)/EPA(B)-2/EMT(H)/EPF(c)/EMP(1)/EMP(J)/T/MP(b) HW/EM/MI
ACCESSION NR: AP5024513 4 UR/0191/65/000/010/0059/0063 4 678. 06-419:617. 521:677. 86
AUTHOR: Bronshteyn, Z. I.; Meytin, Yu, V.: Smel'nitskiy, Filst, Voronova
A. M.; Murav'yev, V. A. U. 35 TITLE: Glass textolite ST based on sized glass cloth
下卷 出述 2017年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1917年,1
SOURCE: Plasticheskiye massy, no. 10, 1965, 59-63
TOPIC TAGS: glass textolite, glass cloth, fiberglass, electric property, dielec-
tric permeability, electric resistance, phenolformaldehyde, specialized coating, organometallic compound, silane, heat property
ABSTRACT: The moisture resistance and electrical properties of glass textolite ST based on phenol-formaldehyde resin IF and made of glass cloth treated with
different sizings were studied to help in selection of materials with optimum properties. The electrical and physical-mechanical properties of the textolite
based on sized glass cloth are much better than those of slandard glass terrolita.
the electrical properties compare with those of glass textellte ST containing polyphenylsiloxane. Glass cloth E and SE was sized with the following materials:
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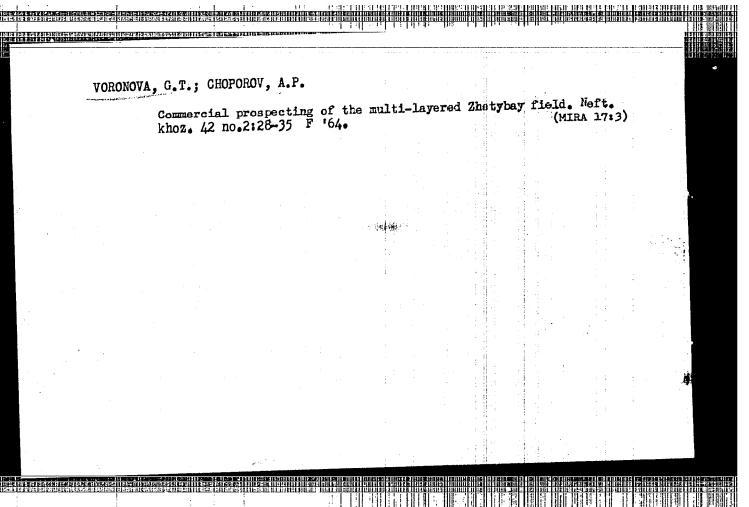
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gamma-aminopropyltriethyoxysil acid-Volan 702, ethylhydroxysil	orane Alguid C	KZho4/2		iphen or	methacr	Alic
GKZh16, polydimethylsilazane L-	-24k, aminosi	lanes AD	E-3/in	d ADEI	l-2. vinv	1-
triethyoxysilane VTES, and a phe	enylethoxysila	ne hydrol	ysiii pr	cduct-	resin 7-	.9.
The first four sizings imparted g	ood electrical	properti	es ifte	r prolo	nged soal	king
in water or in 95% humidity at 20	C. The effec	tiveness	of GIC2	Zhili4 an	d GKZh1	6
was reduced with increased temp thermo-chemical treatment of gli	erature: Pro	codures v	W EITB	orked c	ut for the	9
obtaining textolite with high elect	rical properti	es under	high h	iti zitziv	condition	lure
Orig. art. has: 8 tables and 4 fig	ures				Condition	
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ASSOCIATION: None						
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VORONOVA, A.M.; KUTOLINA, N.I.

Treatment with olitorizide of cardiac insufficiency. Sov.med. no.3:136-140 '62. (MIRA 15:5)

1. Iz fakul tetskoy terapevticheskoy kliniki (zav. kafedroy - chlen-kormespondent AMN SSSR prof. D.D. Yablokov) Tomskogo meditsinskogo instituta (dir. - prof. I.V. Toroptsev).

(CARDIAC GLYCOSIDES) (BLOOD—CIRCULATION, DISORDERS OF)

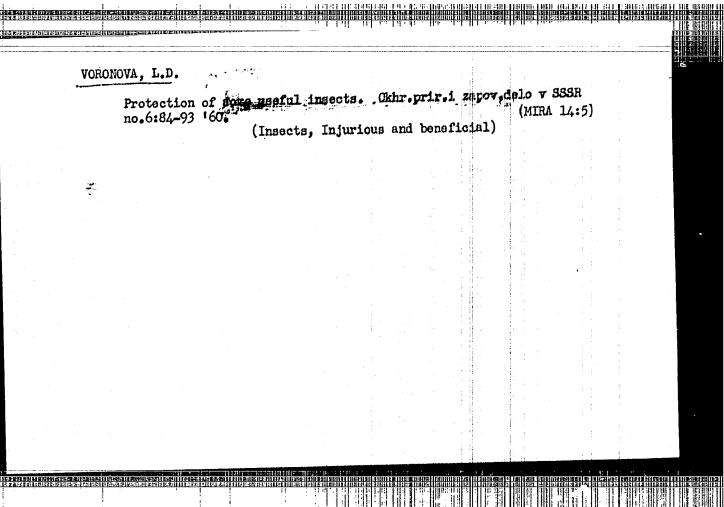


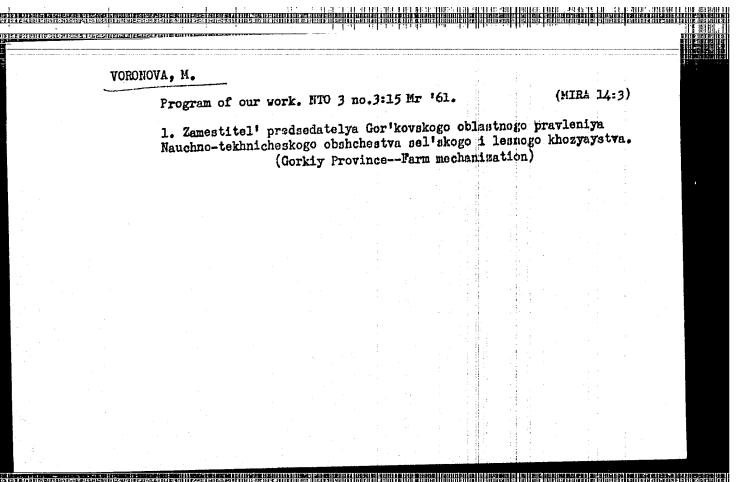
SIMAKOVA, T.L.; STRIGALEVA, N.V.; KOLESNIK, Z.A.; VORONOVA, I.K.;
GERASYUTO, Z.S.; SHMONOVA, N.I.

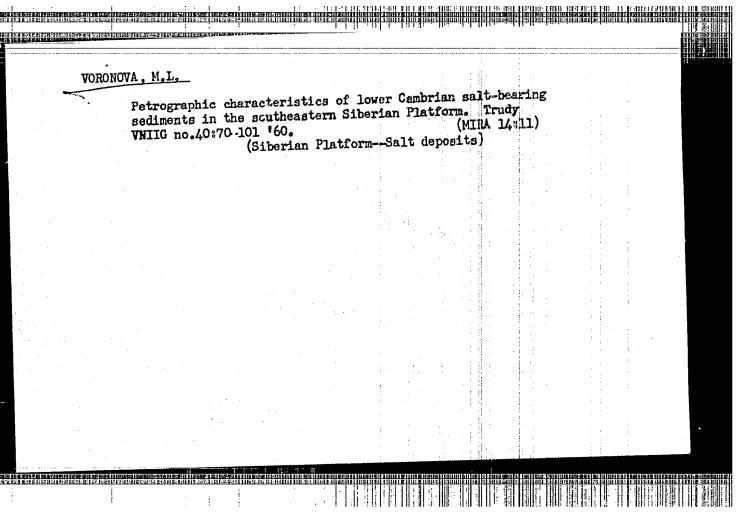
Role of bacteria in the conversion of the hydrocarbon part and the asphaltic-bituminous components of paraffin petroleum under anaerobic conditions. Trudy VNIGRI no.174.277.97 161.

(MIRA 14.11)

(Petroleum—Microbiology)

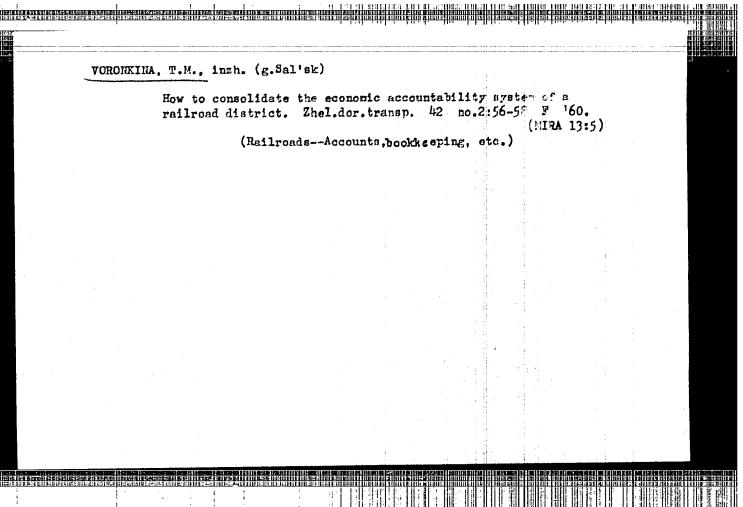






VAKHRAMEYEVA, V.A.; VORONOVA, M.L. Immeburgite from Kara-Bogaz Gol and Uzum-Su. no.40:330-336 '60. Tridy VIIIG (MIRA 14:11) (Kara-Bogaz-Gol(Guef)--Luneburgite)

APPROVED FOR RELEASE: 03/20/2001



The possibility of differentiation and formation of osteosercome cells in pleural exudate [with summary in English]. Arkh.pat. 20 no.4:24-49

1. Iz kafedry patologicheskoy anatomii (zav.-prof. I.V. Toroptsev) i kafedry fakul tetskoy terapii (zav.-prof. D.D. Yablokov) Tomskogo meditsinskogo instituta.

(LUNG NEOPLASMS,

158.

sarcoma, differentiation of tumor cells in vlaural exudate (Rus)

(MIRA 11:5)

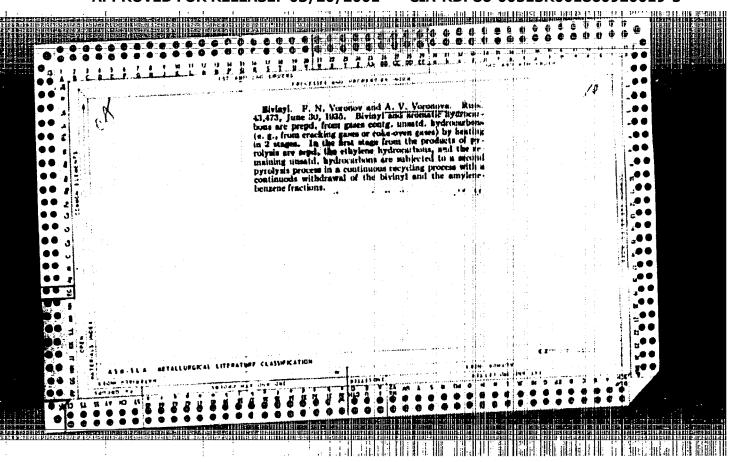
(SARCOMA, pathology lung, differentiation of tumor cells in pleural exudate (Rus)

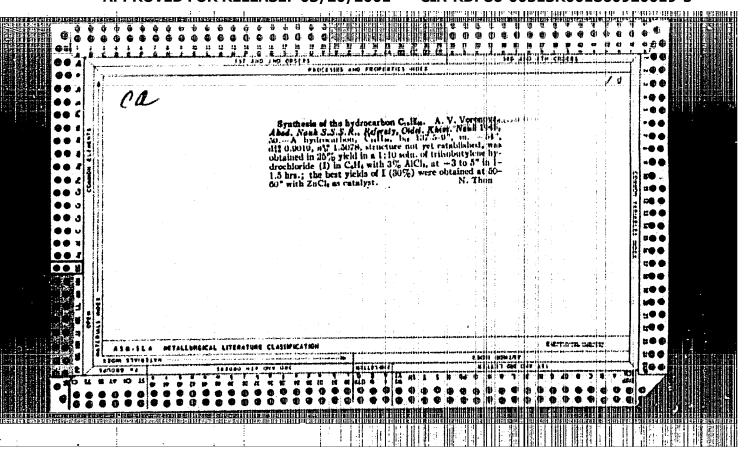
BELOUSOV, S.P.; YAMPOL'SKIY, V.G., etv. red.; VORONOVA, ArTr, red.;
MARKOCH, K.G., tekhn. red.

[Directional antennas for radio reception in the range from 200 - 2000 meters] Napravlennye autenny dlia professional'-nogo priema radioveshchaniia v diapazone 200 - 2000 m. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 71 p.

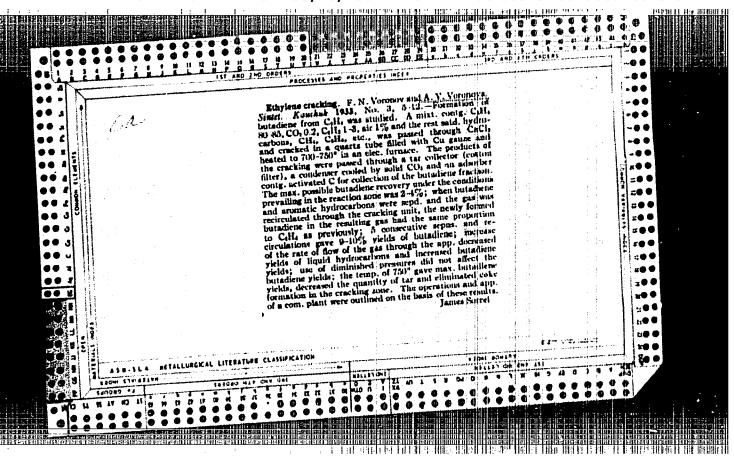
(Radio—Antennas)

(Radio—Antennas)





"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860920019-5



MARCHUK, G.I., red.; VORONOVA, A.N., red.; MAZEL', Ye.I., tekhn. red.

[Theory and methods of designing nuclear reactors] Teoriia i metody rascheta isdernykh reaktorov; sbornik statei. Moskva, Gosatomizdat, 1962. 258 p. (MIRI 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Marchuk).
(Nuclear reactors)

VORONOV	A, A.	P.					:						
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CRONOVA, HY

AUTHOR: Voronova, A.V. and Gurevich, A.G.

109-4-5/20

(2)

TITLE:

Evaluation of the Propagation Constants of a Rectangular Waveguide with Ferrite Plates. (Raschet postpyannykh rasprostraneniya v pryamougolnom volnovode s ferritovymi

plastinami)

Radiotekhnika i Elektronika, 1957, Vol.2, No.4, PERIODICAL: pp. 401 - 407 (USSR)

ABSTRACT: Two waveguide phase-shifters are considered. One of these comprises a ferrite plate of thickness H, which is placed near one of the narrow walls of the guide. The second phase-shifter comprises two ferrite plates which are parallel to the narrow walls. The longer walls of the guide have a length a , and the plates are magnetised perpendicularly to the axis of the system. The plates are characterised by a permittivity e and magnetic parameters $\mu = 0.9$ and α ; the permettivity and the permeability of the guide were assumed as $\epsilon_0 = \mu_0 = 1$. The propagation constant Y of the guide with one ferrite plate can be found by solving:

Card 1/4

$$\frac{x}{u} \operatorname{ctg} xh + x_{0} \operatorname{ctg} x_{0} + \frac{\alpha \gamma}{uu_{1}} = 0$$

109-4-5/20 Evaluation of the Propagation Constants of a Rectangular Waveguide with Ferrite Plates.

where:

$$x^2 = k_0^2 \operatorname{su}_1 - \gamma^2$$

$$x_0^2 = k_0^2 - \gamma^2$$

$$k_0 = \frac{\omega}{\sigma} = \frac{2\pi}{\lambda}$$

$$\mu_{\perp} = \mu - \frac{\alpha^2}{u}$$

and

$$t = \frac{a}{2} - h.$$

Similarly, the propagation constant of a guide with two plates can be found from:

Card 2/4

$$\frac{x}{\mu_{\perp}} \operatorname{ctgh} x - x_0 \operatorname{tg} x_0 \mathbf{1} + \frac{\alpha \gamma}{\mu \mu_{\perp}} = 0$$

(3)

109-4-5/20

Evaluation of the Propagation Constants of a Rectangular Waveguide, with Ferrite Plates.

Equations (2) and (3) are given without derivation; they are presumably taken from a paper by V.V. Nikolskiy [Ref. 5]. The equations were solved numerically by the Newton's method by employing a fast electronic computer. The calculations were made for two directions of propagation (or two directions of the magnetising field), corresponding to the propagation constants γ_+ and γ_- ; and for the following values of the variable parameters: $\alpha = 0$ to 0.5, $\alpha = 3$ to 11, $\alpha = 0.08$ to 0.26) a, and $\alpha = \alpha = 0$ to 0.5, $\alpha = 3$ to 11, $\alpha = 0.08$ to 0.26) a, and $\alpha = \alpha = 0$ to 0.5, $\alpha = 3$ to 11, $\alpha = 0.08$ to 0.26) a, and $\alpha = \alpha = 0$ to 0.5, where $\alpha = 0$ to 2.39 and $\alpha = 0$ 0.05. The calculated results of $\alpha = 0$ 1.39 and $\alpha = 0$ 2 were used to evaluate the so-called non-mutual phase-shift:

$$\eta = (\gamma_+ - \gamma_-)a \tag{5}$$

and of its frequency coefficient:

Card 3/4 $K = \frac{\eta_{01} - \eta_{02}}{\eta_{01}} \quad \frac{\lambda_0}{2\Delta\lambda}$

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109-4-5/20

Evaluation of the Propagation Constants of a Rectangular Waveguide with Ferrite Plates.

where η_{01} was calculated for $\lambda_1 = \lambda_0 - \Delta \lambda$ and η_{02} for $\lambda_2 = \lambda_0 + \Delta \lambda_2$. The values of η and K are plotted as functions of all the above variables for both the phase shifters (single-plate and two plates). Altogether twelve sets of graphs are given. By comparing the results obtained with a single plate $(\eta_1, \text{ and } K_1)$ with those for the system with two plates $(\eta_2 \text{ and } K_2)$ it is seen (Figs. 9 and 10) that the latter gives a bandwidth about twice larger than the former. There are 6 references, of which 3 are Slavic.

SUBMITTED: October 25, 1957.

AVAILABLE: Library of Congress.

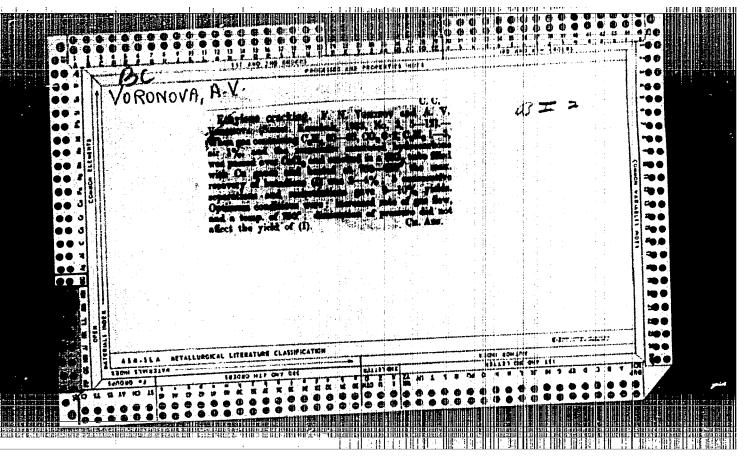
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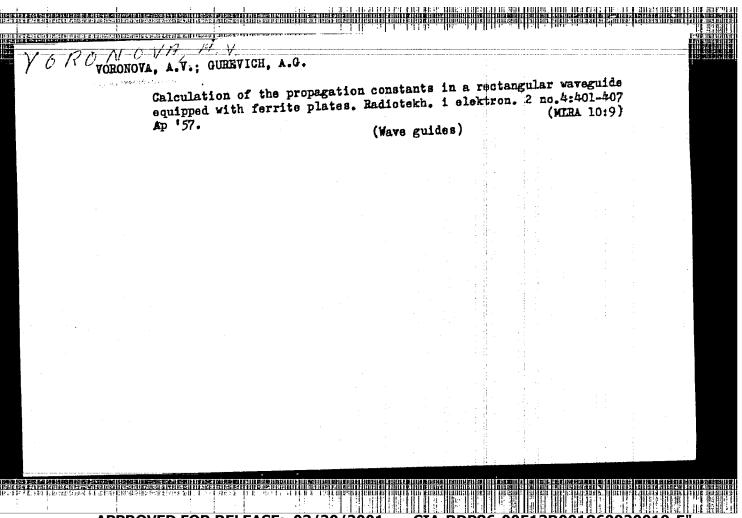
KRASIK, L.B., dotsent; KUZNETSOVA, N.K.; GLIKINA, R.I.; VCHONOVA, A.N.; KOCHESHKOVA, Z.V.

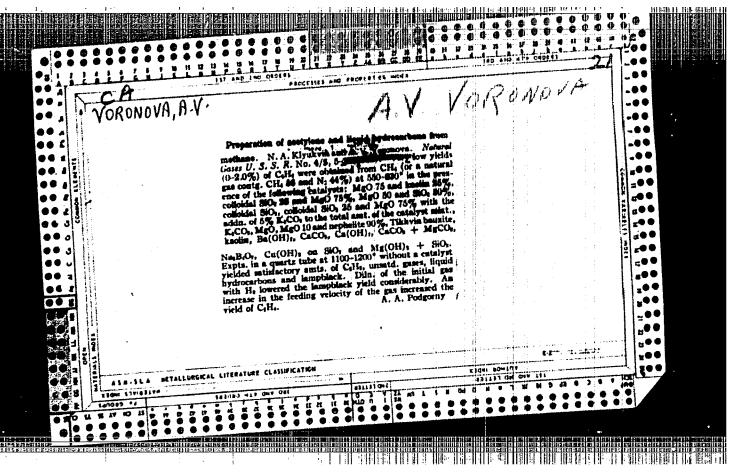
Organization and work of sections for premature infants in children's hospitals in the city of Molotov. Vop.okh.mat. i det. 1 no.6:60-64 N-D 156. (MLRA 10:1)

1. Iz kafedry pediatrii (ispolnyayushchiy obyazannosti zaveduyushchego dotsent L.B.Krasik) Molotovskogo meditsinskogo instituta (dir. - prof. I.I.Kositsyn)
(MOLOTOV-INFANTS (PREMATURE))

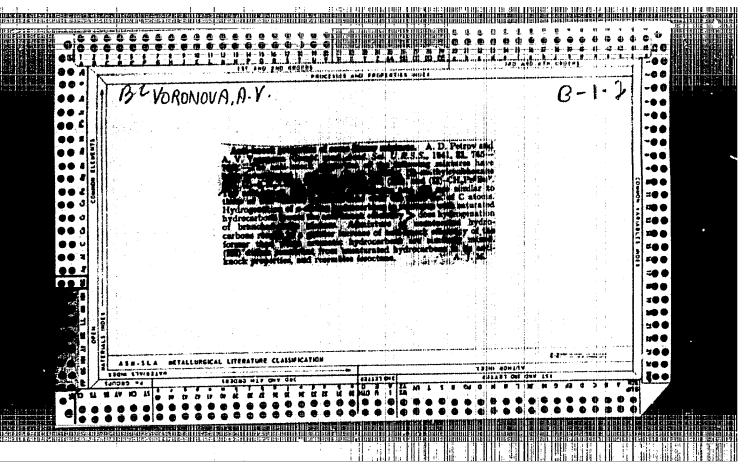
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USSR/Cultivated Plants - Potatoes. Vegetables. Melons. etc.

Μ.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15610

Author

A.Ye. Voronova

Inst Title

Hardening Seeds and the Seedlings of Thermophyllic

Cultures.

(Zakalka semyan i rassady termolyubivykh kulitur).

Orig Pub

: Sad i ogorod, 1956, No 12, 19-21

Abstract

: At the Delmatovo Variety Testing Patch in Kurganskaya Oblast' the hardening of the seeds and young seedlings of vegetable crops with alternating temperatures having acted on the swelling sceds increased the tomato yield by 30-50% and accelerated ripening by 8-15 days. When the seeds and seedlings of watermelon, eggplant and

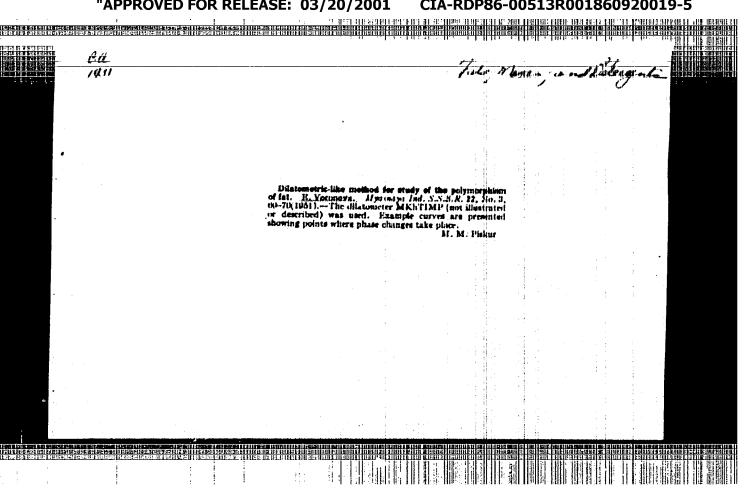
cucumber seeds were hardened the same good results were

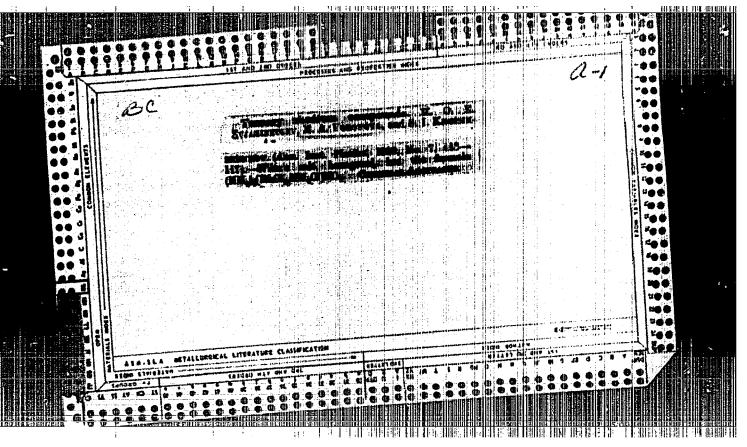
obtained.

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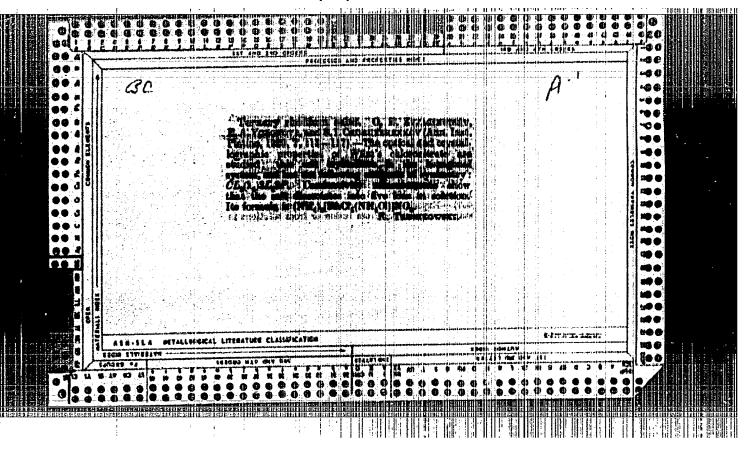
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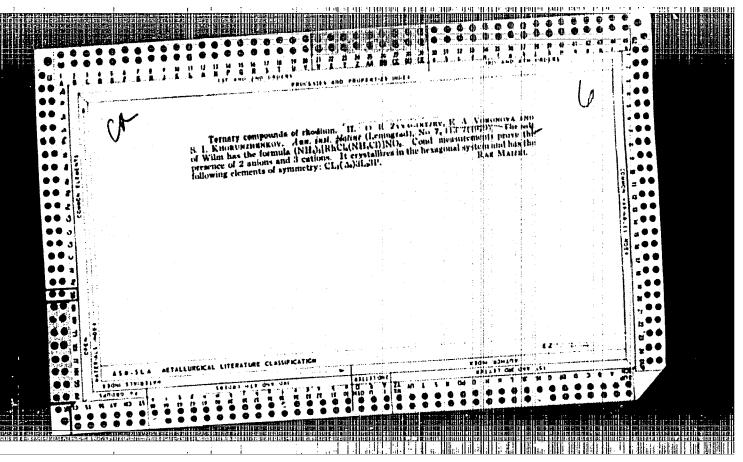
•	VORONOVA, A. YE.	;					1
	USSR (600)						
.•	Vegetable Gardening Hardening seeds and transplanting	material	of	vege	table cro	ps, Dost.	
7 • ,	Hardening seeds and transplanters, sel'khoz., No. 4, 1953.					· · · · · · · · · · · · · · · · · · ·	
			•		April,	_1953, Uncl.	
9.	Monthly List of Russian Accessions, Lib	rary of Con	gres	S ,			_

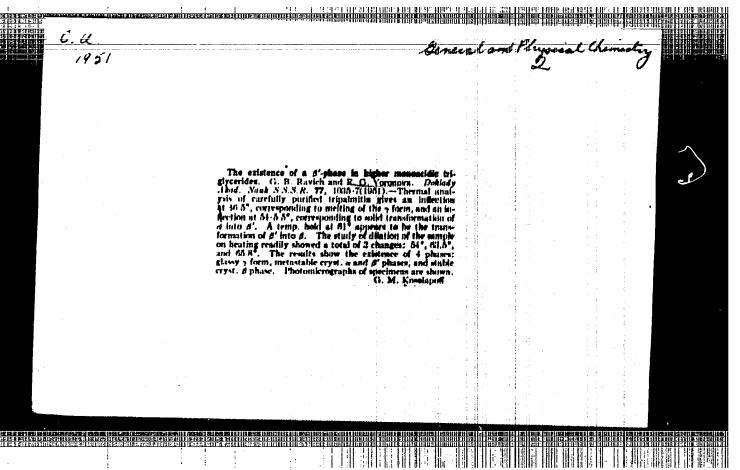




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ACCESSION NR: AP4022109

13/0073/64/030/003/0274/0279

AUTHOR: Zharavskiy, F. G.; Sereda, Yc. S.; Voronova, E. D.

STREEZENIUS GERENTUS SELTENSE ET DES GOLDEN GERENTUS DE L'ANGER DE L'ANGE

TITLE: Extraction of hydriodic acid from aqueous solutions and separation of minc and cadmium iodide complexes.

SOURCE: Ukrainskiy khimichaskiy zhurnal, v. 30, no. 3, 1964, 274-279

TOPIC TAGS: hydriodic acid, zinc iodide complex, cadmium iodide complex, extraction, zinc cadmium separation, selective extraction, extractant, partition coefficient, rhodanide precipitation, solvent dielectric constant

ABSTRACT: Elements occurring in the same series are separated in the form of their halide and rhodanide complexes by selective extraction. In this study the distribution of hydriodic acid and of zinc and cadmium iodide complexes between water and oxygen-containing organic solvents was determined. By increasing the initial concentration of HI from 0.1 to 5.0 moles/l. its transfer to the organic phase of the water-organic solvent system is increased. The ability to extract HI increases in the following series of solvents: isoamylacetate, diethyl ether, isoamyl alcohol, butanol (best extractant). The extracting ability of these alcohols

Card 1/3

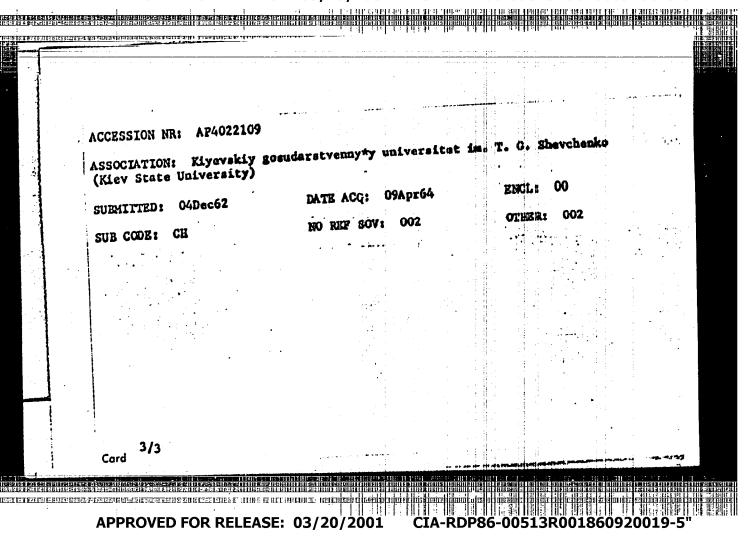
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860920019-5"

ACCESSION NR: AP4022109

parallels their dielectric constant. The distribution of zinc and cadmium iodida complexes (prepared from aqueous solutions of the corresponding sulfates and KI) between aqueous H2SO4-KI solutions and the following solvents was studied: isobuty alcohol, isoamyl alcohol, diethyl ether, isobutylacetate, methylbutyl ketone, isoamyl acetate, and isoamylbenzoate. Increasing the acidity of the madium increases the separation of Cd into the organic phase, e.g., in incamyl alcohol the partition coefficient is increased from 1.42 in 0.05 M H2SO4 to 111.00 in 6 M acid. An analgous effect occurs with Zn, only to a much lesser degree, on extraction with isoamyl alcohol, diethyl ether and methyl butylketone (from 0.12 in 0.05 M acid to 0.33 in 6 M acid in isoamyl alcohol). Extraction of the zinc lodide with the remaining organic solvents starts to increase with solutions 3 M or higher in acid. The ability of the alcohols and of the complex ethers to extract cadmium iodide increases with an increase in the molecular weight of a given class of compounds. By extracting a Cd-Zn mixture with ispamyl alcohol and subsequently treating the extract with a 25% solution of ammonium rhodanide, Zn-free Cd can be obtained even with an initial Zn:Cd ratio of 10:1. Orig. art. has: 4 tables.

Card

2/3



(MIRA 12:12)

RZHEKHIN, V.P.; POGONKINA, N.I.; VORCNOVA, B.K.

Behavior of peroxide and epoxide compounds in the thermal treatment of oilseeds and oils. Masl.-zhir.prom. 25 no.8:

14-16 159.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Oils and fats) (Oxides)

VORONOVA, G. S., IVANOVA, H. A., AMESOV, V. F.

"Epidemiological characteristics of dysentery in rural localities."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

VORONOVA, 6. S.

DYSENTERY

"The Epidemiological Characteristics of Dysentery in Rural Regions and the Measures for its Decrease", by B.P. Amosov, G.S. Voronova and N.A. Ivanova, Trudy Leningradskogo Sanitarno-Gigiyenicheskogo Instituta 1956, 27, pp 98-110 (from Meditsinskiy Referativnyy Zhurnal, Section 4, No 1, 1957.)

This article deals with the epidemiological characteristics of dysentery in 2 rayons. A series of examples and tables illustrate the following subjects: the rate of dysentery and other gastro-intestinal diseases in P-kiy Rayon in 1951-1954; the rate of acute dysentery in 1954, based on 3 age groups; the rate of dysentery in 1952-1954 in medical district S; dysenteric rate in medical district S based on age groups; the hospitalization of dysenteric medical district S in 1954; the rate of dysentery and the other gastro-intestinal diseases in K Rayon from 1953 to October 1955; and the rate of dysentery and other gastro-intestinal diseases, broken down by months (of 1955), in K Rayon.

Card 1/1

- 32 -

GRYAZNOV, N.K.; VORONOVA, G.T.

Detailed investigation of Devonian oil pools being prepared for development in areas adjacent to the Romashkino field. Nauch.tekh. sbor. po dob. nefti no.1:53-57 '58. (MRA 15:9)

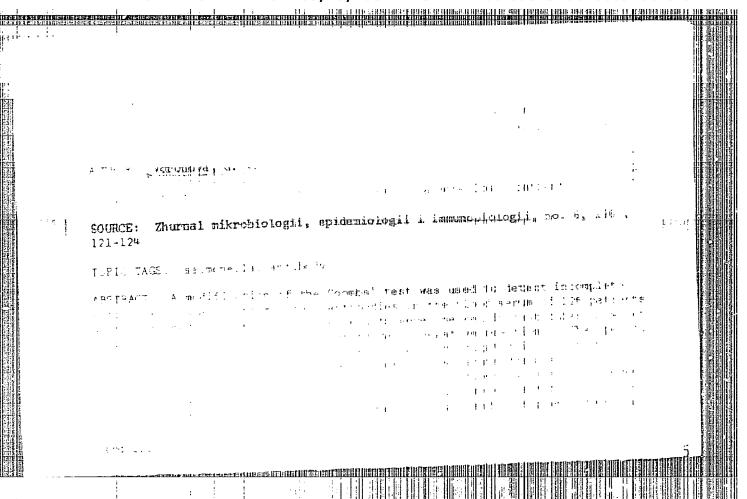
1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut. (Romashkino region—Oil reservoir engineering)

VORONOVA, G.V.

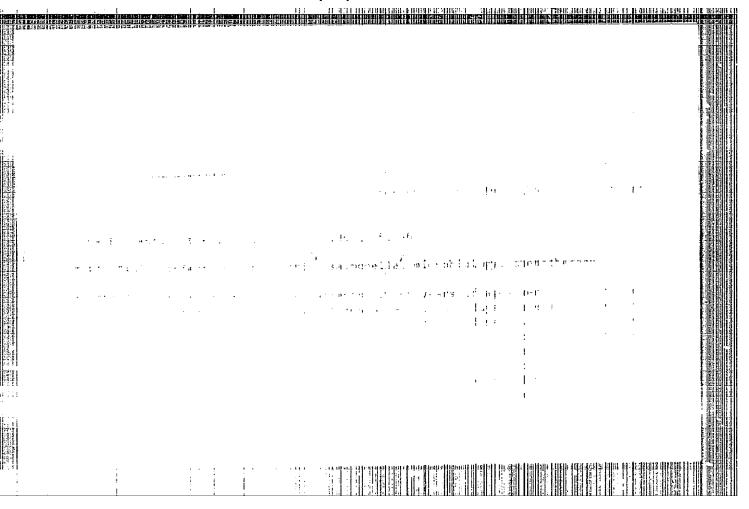
Detection of incomplete antibodies in salmonellosis patients.
Zhur. mikrobiol., epid. 1 immun. 42 no.6:121-124 '65.

(MIRA 18:9)

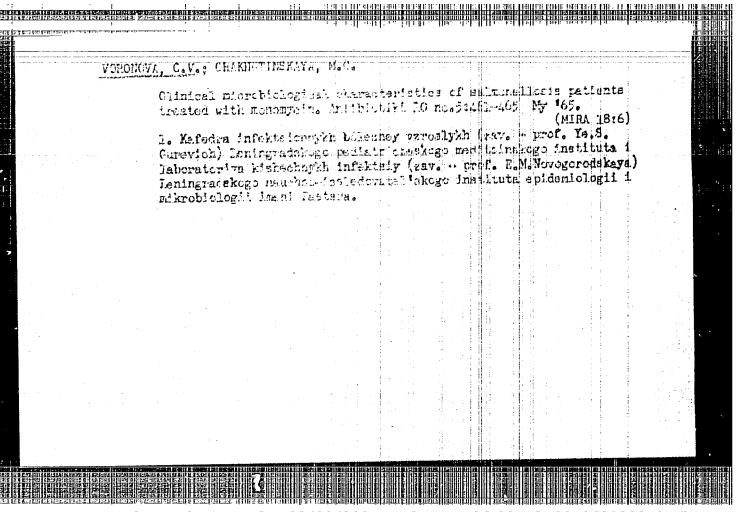
1. Leningradskiy pediatricheskiy meditsinskiy institut.

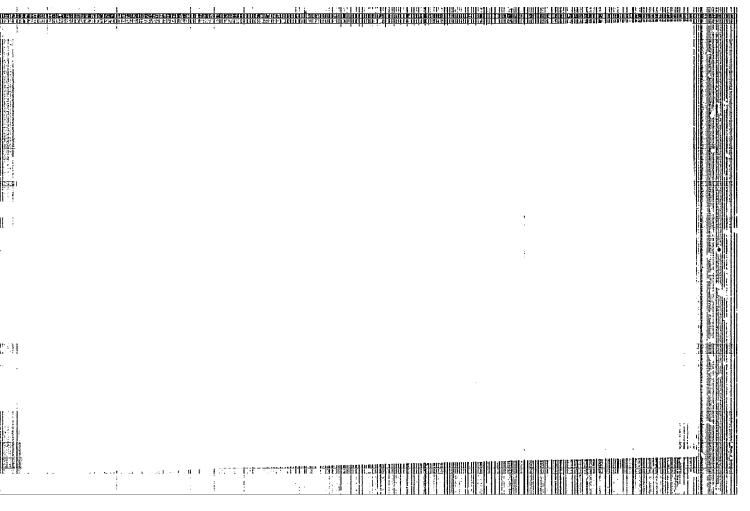


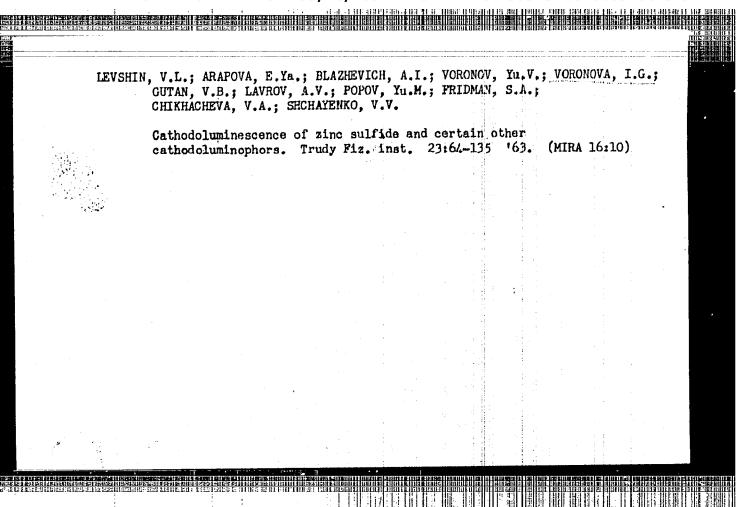
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ACCESSION NR: AT4001250

8/2504/63/023/000/0064/0135

AUTHORS: Levshin, V. L.; Arapova, E. Ya.; Blazhevich, A. I.; Voronov, Yu. V.; Voronova, I. G.; Gutan, V. B.; Lavrov, A. V.; Popov, Yu. M.; Fridman, S. A.; Chikhacheva, V. A.; Shchavenko, V. V.

TITLE: Study of cathode luminescence of zinc sulfide and other cathode phosphors

SOURCE: AN SSSR. Fizicheskiy institut. Trudy*, v. 23, 1963, 64-135

TOPIC TAGS: luminescence, cathode luminescence, phosphor, zinc sulfide phosphor, phosphorescence, photoluminescence, zinc sulfide, excitation energy, phosphor excitation

ABSTRACT: This is a review article devoted to a theoretical and experimental analysis of excitation energy losses in cathode luminescence, the approximate maximum cathode luminescence yield, exchange

Card 1/4

ACCESSION NR: AT4001250

of energy between an electron beam and a layer of luminor through which it passes, and also the evolution of individual glow processes as functions of the excitation density and the temperature. ticular attention is paid to an investigation of the persistence properties of ZnS phosphors and their connection with the location and filling of the electron and hole localization levels. analysis is made of the energy losses resulting from thermalization of the electrons and holes, and it is shown that in cathode luminescence these unavoidable losses are very large and decrease the glow efficiency by approximately 2.5 times. Allowing for other losses, the over-all glow efficiency in cathode luminescence cannot exceed 0.27--0.30. The study of the passage of an electron beam through sublimated layers of zinc-sulfide luminors has established the voltage dependence of the electron penetration depth and the energy losses at different depths of electron penetrations. The dependence of the spectral composition, brightness, and energy glow yield of. various zinc-sulfide and phosphate luminors on the current density,

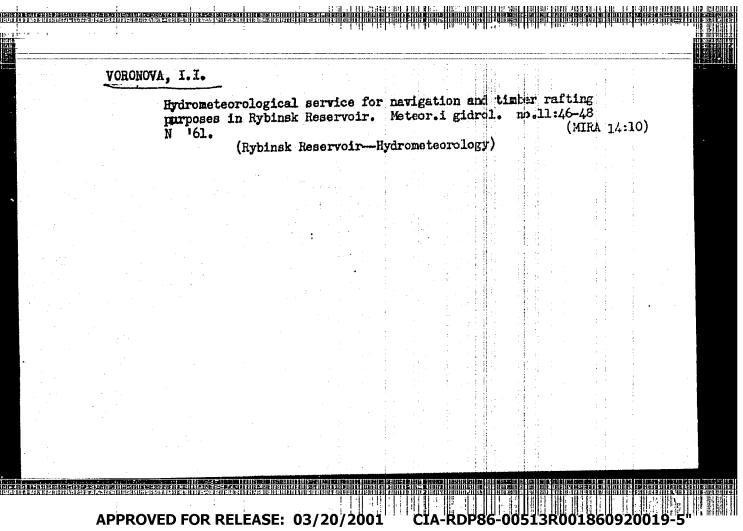
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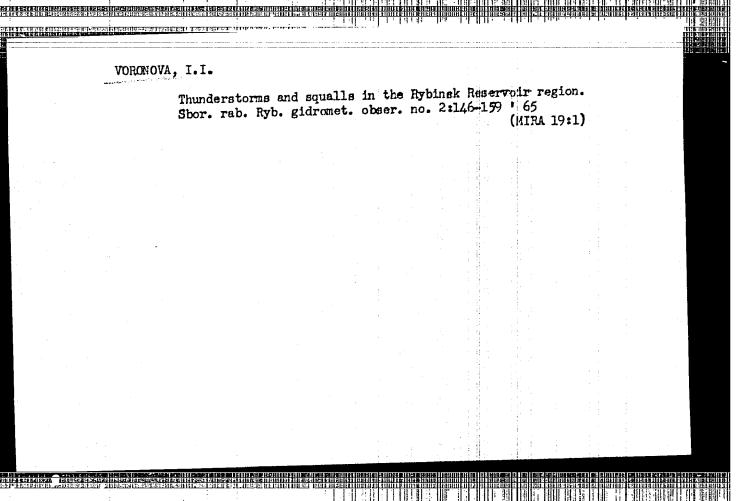
ACCESSION NR: AT4001250

voltage, and temperature were investigated. A glow efficiency of 0.256 was calculated for one type ZnS-Ag luminor. The attenuation of glow of different types of cathode luminors to 0.1, 0.01, and 0.001 of the initial brightness was investigated and the presence of two superimposed de-excitation processes of different durations is established. The causes of the reduction in the duration of afterglow with increasing excitation density are considered. The arrangement and development of localization level of the investigated luminors was studied by the thermal de-excitation method and a connection was established between the attenuation and liberation of the levels at definite depths. "The authors are grateful to senior designer A. G. Ovchinnikov, radio technicians V. P. Ly*sov and Yu. A. Platukhin, senior laboratory assistants Z. M. Bruk, S. B. Kondrashkin, N. V. Mitrofanova, L. N. Petrakov, and A. D. Sy*chkov and laboratory assistant V. P. Prokhorova who helped with the present work." Orig. art. has: 66 figures, 28 formulas, and 4 tables.

Card 3/4

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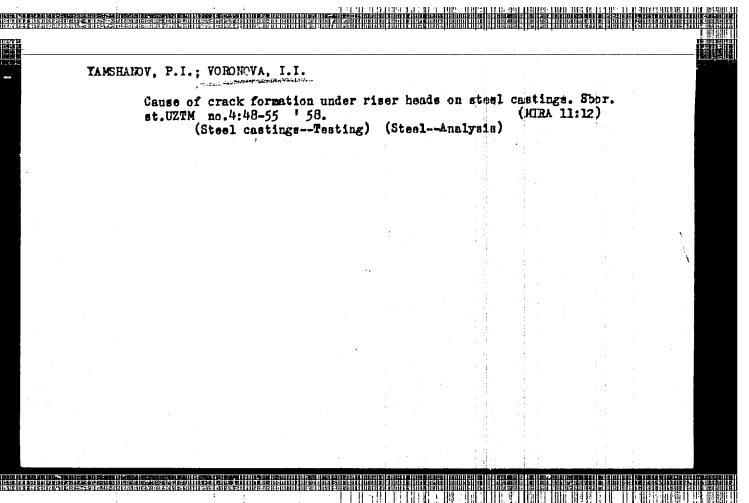


VORONOVA, I. I.

with P. I. Yamshanov "Causes of Crack Formation Under Lout Heads of Steel Castings"

Making of Large Castings, Moscow, Mashgiz, 1958, 108pp.

(This book was prepared for the 25th Anniversary of the Uralmashzavod. The stages of founding development in the plant and the plant's progress and achievements in this field are described.



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3/081/62/000/006/067/117 B149/B108

11.0130 AUTHORS:

Simakova, T. L., Strigaleva, N. V., Kolesnik, Z. A.,

I. K., Gerasyuto, Z. S., Shmonova, N. I.

The role of bacteria in the transformation of hydrocarbons TITLE:

and asphalto-bituminous components of paraffin-base petroleum

under anaerobic conditions

Referativnyy zhurnal. Khimiya, no. 6, 1962, 527, abstract PERIODICAL:

6M130 (Tr. Vses. neft. n.-i. geologo-razved. in-ta, no. 174,

1961, 77 - 97)

TEXT: The results of experiments with three different communities of bacteria taken from the water below the petroleum layer in the wells of Tashkal, the Staro-Groznenskiy oil field and the Emba region are described It is shown that under the biological action of bacteria certain changes occur in the structure of methane hydrocarbons separated from the fraction 250 - 300°C of Tashkal petroleum by forming complexes with urea. The methane hydrocarbons in the analogous fractions of Makhachkala petroleum were not affected by bacteria. The structural composition of aromatic Card 1/2

APPROVED FOR RELEASE: 03/20/2001

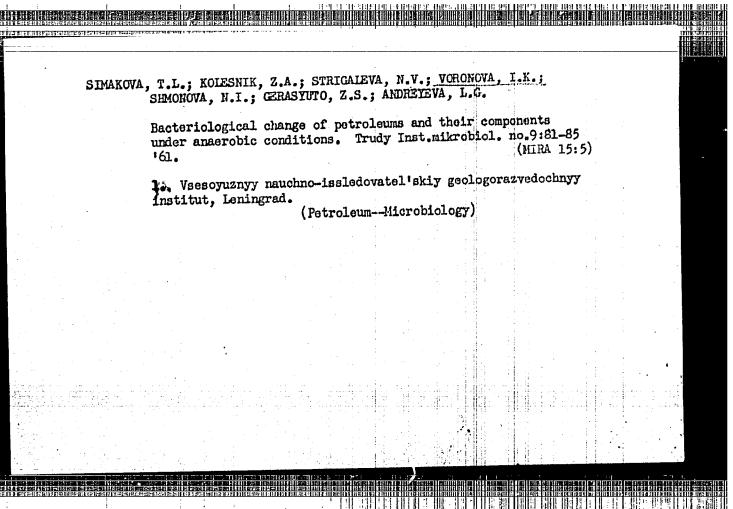
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The role of bacteria in the ...

hydrocarbons in the kerosene and oil fractions was changed, the aromatic rings showing a decrease and the paraffin chains an increase. It is concluded that the change in composition of the hydrocarbons and of the asphalt-bituminous part of petroleum depends both on their chemical composition and on the species-composition of the bacterial community.

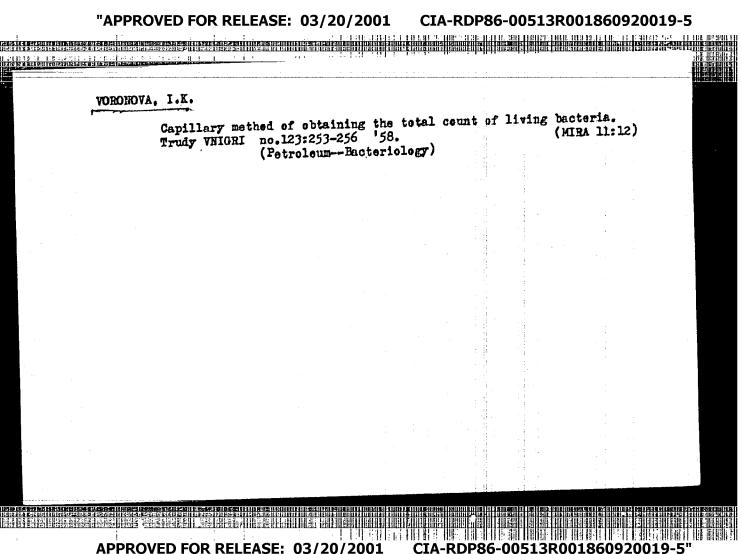
[Abstracter's note: Complete translation.]

Card 2/2



APPROVED FOR RELEASE: 03/20/2001

CTA-RDP86-00513R001860920019-5



USER/Plant Physiology - Rempiration and Matabaliam. I-3 Abr Jour : Ref Zhur - Biol., No 4, 1953, 15136 Author : Mitiushova M.H., Voronova I.K. Inst Title : On the Forme of Mitrogen Substances in the Juice of Leguminous Plants with and Mithout Tubers. Orig Pub : Uch. 20p. LCY, 1956, No 216, 188-195 : The contents of common nitrogen, and protein, emine and Abstract amide nitrogen in the juice of leguminous plants (lupine, beens) with and without tubers were compared. Leaves, stems and root: in various periods of vegetation were studied. The content of general Mitrogen in the juice of infected plants was considerably high. However, the correlation between omine nitrogen, amide and protein nitrogen in control and infected plants was almost equal (with the exception of nitrogen smide, of which the relative content in infected plants was always higher). The conclusion Card 1/2

WESR/Flant Physiology - Respiration and Metabolism.

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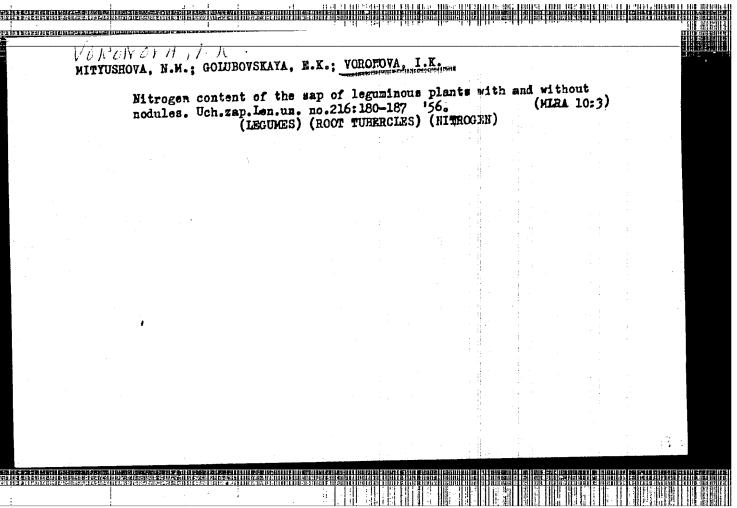
Abs Jour : Ref Zhur - Blol., No h, 1958, 15186

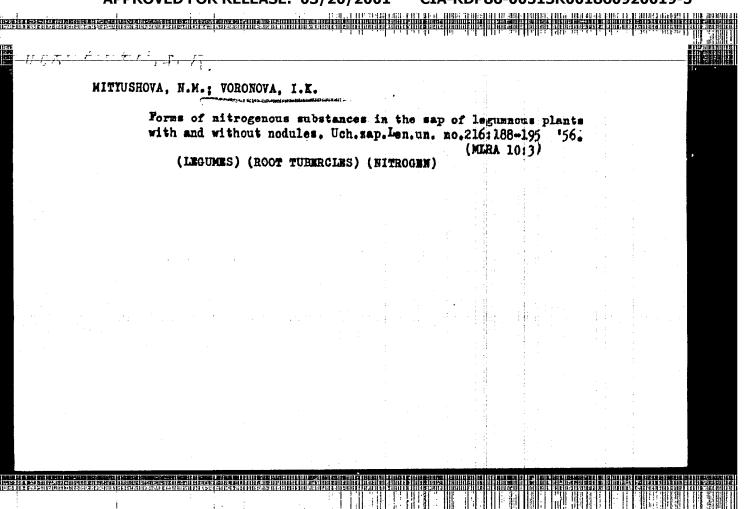
was drawn that the increase in the content of general nitrogen in infected plants occurred more or less equally at the expense of all the tree forms of mitrigen studied.

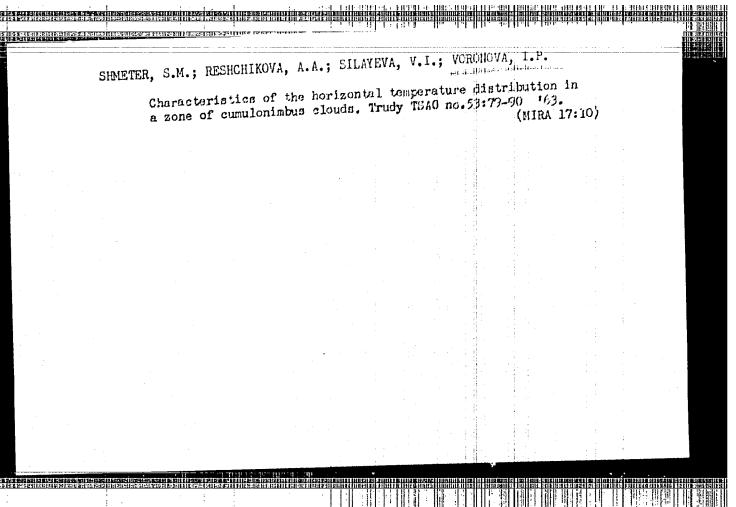
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was determined in the juice of lupino, and chick-peas with and without nodules. Before sowing, the seeds were infected with the nodular bacteria of the correspond-

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 $EMT(d)/EMP(c)/EMP(v)/T/EMP(k)/EMP(\overline{1})$ TJP(c)SOURCE CODE: UR/0381/66/000/002/0022/0029 L 46716-66 ACC NR: AP6023645 AUTHOR: Oshchepkov, P. K.; Klimov, K. M.; Voronova, I. S. ORG: NII Introscopy (NII introskopii) TITLE: Development and investigation of an electromagnetic intrascope for recording 2-dimensional images of the magnetic relief of tubes on electrochemical paper SOURCE: Defektoskopiya, no. 2, 1966, 22-29 TOPIC TAGS: flaw detection, magnetic recording, recording paper, meral tube ABSTRACT: The construction and use of an electromagnetic "intrascope" is described. Ferromagnetic tubes were inspected for artificially-induced and matural defects, by transferring 2-dimensional magnetic relief patterns of the defects to electrochemical paper. Schematic drawings of the intrascope components and their circuitry are present ed. The original signal is emitted by an inductive probe transmitter, having a range of sensitivity of 0.015-0.1 v/oe relative to the external magnetic field. After boosting, the signal is sent through an amplitude modulator, a power amplifier, a rectifier a signal synthesizer (the topograph) and finally, a recorder. Circumferential scanning of tubes with an outer diameter of 57.6 mm was done by rotating them at 2 rev/sec. In the longitudinal direction, the image scale was usually 1:1. In the transverse direction the image scale m was given by the formula UDC: 620.179.14 Card 1/2

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 $m = \frac{l_{\text{line}}}{\pi(D+2h)},$

where t_{line} is the line length of the paper (mm), D is the outer tube diameter (mm) and h is the clearance between the surface of the tube and the tip of the transmitter (mm). Other process parameters were: strength coefficient— 10^6 , recorder power—0.2 to 0.5 watt, recorder current—20 to 50 ma, ohmic resistance of the electrochemical paper—600 to 200 ohms, characteristic frequency—1500 cps. Inspection of tubes made from 20 steel was successful in locating defects as small as 5-10% of the area of the transmitter probe. A list of the artificially—induced defects is given, showing their positions along the axis and perimeter of the tubes. Intragrams illustrated the effect of different magnetic arrangements on the characteristics of the 2-dimensional images and also depicted natural forge and lap defects. The recording speed ranged from 1200-2500 m/sec depending on the quality of the electrochemical paper. The maximum scanning rate was 10 cm/sec for m=1:10 in the longitudinal direction and m=1:4 transversely. Orig. art. has: 5 figures, 1 table, 1 formula.

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SUBM DATE: 130ct65/

ORIG REF: 005

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APPROVED FOR RELEASE: 03/20/2001

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STROMBERG, A.G.; VORONOVA, K.R.

Effect of the dropping period on the half-wave potential of manganese and calculation of the current density of the manganese exchange [with summary in English]. Zhur.fiz.khim. 33 no.2:318-325 F '59.

(MIRA 12:4)

1. Tonskiy politekhnicheskiy institut im. S.M. Kirova.
(Manganese) (Polarography)

5(3) AUTHORS: 807/79-29-9-66/76

Voronova, K. R., Stromberg, A. C.

TITLE:

Polarographic Investigation of the Azo Derivatives of Barbituric

and Thiobarbituric Acid

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 3117-3124

(USSR)

ABSTRACT:

Among the soporifics and antispasmodics the derivatives of barbituric acid such as Veronal, Luminal etc have been already used since long. K. R. Voronova (Ref. 1) synthesized a series of azo derivatives of barbituric and thiobarbituric acid. Pharmacological investigations showed that many of these azo derivatives are soporifics and antispasmodics. The dependence of the physiological activity on their structure was observed. In the present paper the azo derivatives of barbituric and thiobarbituric acid were polarographically investigated in order to determine the relation between their structure and their reducibility, which is characterized by their semiwave potential at the dropping-mercury cathode. From publications (Refs 2-4) it is known that aze compounds are easily reduced at the dropping-mercury cathode and that their reducibility depends on the molecular structure. Concern-

Card 1/4

SOV/79-29-9-66/76 Polarographic Investigation of the Azo Derivatives of Barbituric and Thio-

ing azo benzene and its derivatives it was proved (Ref 5) that two electrons participate in the reduction, and that hydrazo compounds result as reduction products:

R-N=N-R₁ + 2H⁺ + 2e⁻ --> RNH-NHR₁. On the basis of a series of investigations it was found that the system of the "azo compound - hydrazo compound" is reversible (Refs 3, 7, 8).

14 Azo derivatives of barbituric acid and 13 corresponding azo derivatives of thiobarbituric acid of the general formula:

NH-CO
CH-N=N-R were investigated; where X=O in barbituric acid and

X = S in thiobarbituric acid; R = phenyl, naphthyl, phenyl with substituents, naphthyl with substituents. It was found that the reduction of the azo derivatives of thiobarbituric acid is more reversible than that of the corresponding azo derivatives of barbituric acid. In the series of the azo derivatives with the naphthalene cycle the introduction of

Card 2/4

barbiturio Acid

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Polarographic Investigation of the Azo Derivatives of Barbituric and Thiobarbituric Acid

the sulfo group facilitates reduction. In the series of azo derivatives with a benzene cycle the introduction of the sulfo- and also of the carboxyl group inhibits reduction. A theoretical explanation of the experimental results obtained is suggested as being provided by the influence of the sulfo group on the semiwave potential of the compounds according to the theory of retarded discharge and ionization. In the polarographic investigation of the above azo derivatives the visual polarograph of the system UFAN was used. All determinations were made in a thermostat with a toluene thermoregulator at 25°. All potentials in the text, in the tables, and in the figures are given with respect to the saturated calomal electrode. The azo derivatives were produced by K. R. Voronova under the supervision of L. P. Kulev to whom the authors express their thanks. There are 2 figures, 4 tables, and 9 references, 4 of which are Soviet.

ASSOCIATION: Tomskiy politekhnicheskiy institut Card 3/4 (Tomsk Polytechnic Institute)

Polarographic barbituric Ac	: Investigation	of	the	Azo	Der	iva	80V	/79- • of	29 B	-9-66 arbit	/76 hario	e and	Thio-	:	
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VORONOVA, K.R.; STROMBERG, A.G.

Polarographic study of azo derivatives of salicylic and & -hydroxynaphthoic acids. Zhur.ob.khim. 33 no.7:2098-2102 Jl '63. (MIRA 16:8)

1. Tomskiy politekhnicheskiy institut.
(Salicyclic acid) (Naphthoic acid) (Azo compounds)

VORONOVA, K.R.; STROMBERG, A.G.

Polarographic and adsorptive properties of benzoyl derivatives of some barbiturates. Zhur.ob.khim. 31 no.8:2786-2792 Ag 161. (KIRA 14:8)

 Tomskiy politekhnicheskiy institut. (Barbituric acid)

5(4)

Stronberg, A. G., Voronova, K. R.

TITLE:

The Effect of the Dropping Period on the Half-Wave Potential of Manganese and Calculation of the Density of the Manganese Exchange Current (Vliyaniye perioda kapaniya na potentsial poluvolny margantsa i vychisleniye plotnosti toka obmena

SOV/76-33-2-12/45

margantsa)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 318 - 325 (USSR)

ABSTRACT:

A series of observations (Refs 4-10) could be explained by the theory of the delayed ionization discharge (Ref 1) which was used by A. G. Stromberg for the amalgam dropping electrode (Refs 2,3). The theory was further developed by studying metals which do or do not form amalgams with mercury, and the theoretical relationships were tested using the example indicated in the title. The theoretical section of the paper explains he two principal cases involved. A new polarographic method for calculating the density of the exchange current of pure metals is suggested, and the density of the exchange current between Mn ions in solution and metallic

Card 1/3

The Effect of the Dropping Period on the Half-Wave Potential SOV/76-33-2-12/45 of Manganese and Calculation of the Density of the Manganese Exchange Current

manganese (on a 1 cm2 true surface) is calculated. For an amalgamation it is assumed that the potential of the half-wave varies linearly with the logarithm of the dropping period, so that with an increase in the dropping period the potential of the half-wave becomes more positive. Corresponding to the derived equations the half-wave potential is independent of the velocity of discharge of the mercury. In the case that no amalgam is formed the concentration of the metal atoms separated on the mercury drops must be considered as constant in the equations. To test the theoretically derived equations of the potential of the half-wave as a function of the dropping period (15) the irreversible polarographic waves of manganese were studied at various dropping periods and compared with the reversible polarographic waves of cadmium. The current strength was measured with a M 21/2 mirror galvanometer while the potential of the dropping electrode was measured with a PPTV-1 potentiometer, Solutions of 10⁻³m MnCl₂, 1.0 m KCl + 0.005% gelatin (or 10⁻³ m CdCl₂, 1.0 m KCl + 0. 005% gelatin) were investigated at dropping

Card 2/3

The Effect of the Dropping Period on the Half-Wave Potential SOV/76-33-2-12/45 of Manganese and Calculation of the Density of the Manganese Exchange Current

periods of 1.2 to 13 seconds using 3 different capillaries and at 19-20°C. The experimental results show that the manganese wave is irreversible, i.e., not only the diffusion process is determining but another delaying stage of the electrode process is also. The experimental data (Figs 1-4) agree well with the theoretical line for the coordinates of the half-wave potential and the logarithm of the dropping period. The line possesses a theoretical angular coefficient of 0.020. There are 4 figures and 16 references, 12 of which are Soviet.

ASSOCIATION:

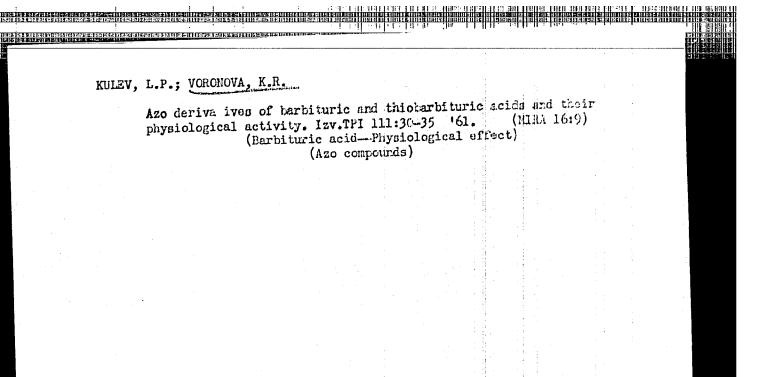
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SUBMITTED:

July 4, 1957

Card 3/3



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AUTHOR: Sinitsy*n, S. N.; Rumyantsav, G. I.; Voronova, K. V.

TITLE: Some changes in the carbohydrate metabolism caused by total-body vibration

SOURCE: Gigiyena i sanitariya, no. 5, 1964, 44-48

TOPIC TAGS: vibration, carbohydrate metabolism, sugar blood content, glycogen blood content, glykemic curve

ABSTRACT: Experiments were conducted with rabbits and dogs for 70—85 days. The rabbits were exposed to total-body vibration with amplitudes of 15, 20, and 200 µ and a frequency of 75 cps, and the dogs were exposed to total-body vibration with an amplitude of 750 µ and a frequency of 50 cps. The experimental data showed that a single exposure to total-body vibration with an amplitude of 200 µ and a frequency of 75 cps for a period of 4 hours decreased the amount of sugar and glycogen in the blood of the test animals, Repeated exposure to the same vibration resulted in a more significant decrease of the sugar and glycogen blood content in the test animals;

Card 1/3

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